RFI Power Line Filters for Switching Power Supply Noise Suppression





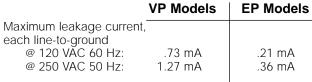


UL Recognized[†] CSA Certified[†] VDE Approved SEV Approved*



EP3/VP3

Specifications



Hipot rating (one minute):

line-to-ground 2250 VDC line-to-line 1450 VDC

EP1/VP1

EP7/VP7

50/60 Hz

Operating frequency:

Rated voltage: 120/250 VAC

current:	@ 120 VAC	@ 250 VAC
P	3A	3A
P	6A	5A
EP	10A	8A
EP/VP	20A	20A
P EP	6A 10A	5A 8A

Maximum rated current peaks:

10A
18A
30A
60A

Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current		Frequency-MHz							
Rating	.01	.04	.05	.15	.5	1	5	10	30
EP									
3A	1	1	10	58	65	65	66	60	25
6A,10A	1	1	10	58	65	65	66	60	25
20A	3	6	6	28	50	55	60	55	55
VP									
20A	3	2	2	42	60	65	65	55	55

Line-to-line in 50 ohm circuit

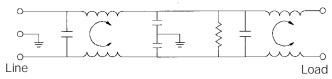
Current				Fred	quenc	y-MF	łz		
Rating	.01	.09	.15	.5	1	5	10	20	30
EP1, EP3									
3A	1	5	36	65	65	65	65	58	58
6A,10A	1	5	30	65	65	65	65	35	35
20A	8	17	25	60	65	65	58	58	58
VP									
20A	8	17	25	60	65	65	58	58	58

EP/VP Series

The EP/VP series of RFI filters has been developed to reduce conducted noise to acceptable limits for equipment that must comply with the requirements of CISPR in Europe and the FCC specifications in the USA.

These filters provide high insertion loss for both line-to-ground and line-to-line emissions throughout the frequency range. They are particularly well suited for equipment that must meet both stringent emissions specifications (such as CISPR 22, A-level and FCC Part 15J, Class B) and the EP models meet very low leakage current requirements.

Electrical Schematic



Resistor location for reference only.

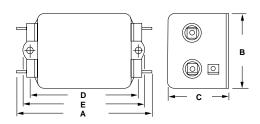
Line Cord

Line Cord No. GA400: 71/2 foot, 3-conductor line cord.

*3, 6, 10A models only †20A models in process

Case Styles Metric shown in italics.

EP1/VP1

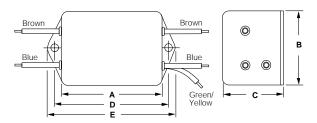


Typical dimensions

Terminals: $\frac{.250}{6.35}$ (5) Holes: $\frac{.07}{1.8}$ Dia.(4) Slot: $\frac{.07 \times .16}{1.8 \times 4.1}$

Mounting holes: $\frac{.188}{4.78}$ Dia. (2)

EP3

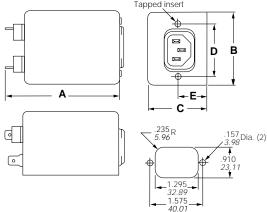


Typical dimensions Wire leads $\frac{4.0}{101.6}$ Min.

Mounting holes: $\frac{.188}{4.78}$ Dia. (2)

EP7 & EP7M (with metric insert)

Tapped insert No. 6-32 x 1/4 (2)-EP7 No. M-3 x 5 (2)-EP7M



Panel cutout (Back mount) Tolerance $\pm \frac{.005}{0.13}$

Typical dimensions Terminals: $\frac{.250}{6.35}$ (3) Holes: $\frac{.07}{1.8}$ Dia.(2) Slot: $\frac{.07 \times .16}{1.8 \times 4.1}$

Libertyville, IL (847) 680-7400 _

Case Dimensions

Metric shown in italics.

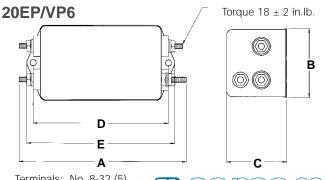
Part No.	A (max)	B (max)	C (max)	D ± .015 ± .38	E (max)
3EP1	3.85 97.8	2.07 52.6	1.78 45.2	2.938 74.63	3.35
3EP3	2.56 65.0	<u>2.07</u> <u>52.6</u>	1.78 45.2	2.938 74.63	3.35
3EP7	3.21	2.25 57.2	1.78 45.2	1.575 40.01	0.63
3EP7M	3.21	<u>2.25</u> <u>57.2</u>	1.78 45.2	1.575 40.01	0.63
6EP1	6.62	<u>2.07</u> <u>52.6</u>	2.28 57.9	5.625 142.88	6.03
6EP3	5.33 135.4	<u>2.07</u> <u>52.6</u>	<u>2.28</u> <u>57.9</u>	5.625 142.88	6.03
10EP1	6.62	<u>2.07</u> <u>52.6</u>	<u>2.78</u> <u>70.6</u>	5.625 142.88	6.03
10EP3	5.35 135.9	<u>2.07</u> 52.6	<u>2.78</u> 70.6	<u>5.625</u> 142.88	6.03 153.2
20EP1, 20VP1	4.95 125.7	<u>2.27</u> 57.7	<u>1.8</u> 45.7	<u>4.063</u> 103.2	<u>4.47</u> 113.5
20EP6, 20VP6	5.09 127.3	<u>2.25</u> <u>57.2</u>	1.78 45.2	4.063 103.2	<u>4.46</u> <u>129.3</u>

Pricing

Consult your local Corcom sales representative for pricing.

Part No.	Part No.				
3EP1	10EP1				
3EP3	10EP3				
3EP7	20EP1				
3EP7M	20EP6				
6EP1	20VP1				
6EP3	20VP6				

Line Cord No. GA400



Terminals: No. 8-32 (5)



† ±.188 ± 4.78